

Fill in the following table. Remember, the prefixes tell you the quantity.

Date:

Blk:

Compound Name	Compound Formula	Compound Name	Compound Formula
carbon monoxide	CO	boron trichloride	BCl ₃
carbon tetrachloride	CCl ₄	carbon tetraiodide	CI ₄
carbon dioxide	CO ₂	boron trichloride	BCl ₃
sulphur dioxide	SO ₂	carbon tetrafluoride	CF ₄
sulphur trioxide	SO ₃	selenium trioxide	SeO ₃
diphosphorous trioxide	P ₂ O ₃	nitrogen trifluoride	NF ₃
dihydrogen dioxide	H ₂ O ₂	sulphur dichloride	SCL ₂
selenium trioxide	SeO ₃	nitrogen dioxide	NO ₂
carbon tetrafluoride	CF ₄	dinitrogen tetroxide	N ₂ O ₄

Write the formula for the following:

hydrogen H₂oxygen O₂nitrogen N₂chlorine Cl₂fluorine F₂iodine I₂bromine Br₂

What should you always remember about the above elements when writing chemical formulae and reactions?

HOFBrINCl

These 7 elements found in Pairs!

Fill in the following table with compound names. Remember the prefixes.

Compound Formula	Compound Name	Compound Formula	Compound Name
CO	Carbon Monoxide	NO	Nitrogen Monoxide
CO ₂	Carbon Dioxide	N ₂ O ₄	Dinitrogen Tetroxide
SO ₂	Sulfur Dioxide	CS ₂	Carbon Disulfide
NO ₂	Nitrogen Dioxide	PCl ₃	Phosphorus Trichloride
N ₂ O ₂	Dinitrogen Dioxide	PBr ₅	Phosphorus Pentabromide
SO ₃	Sulfur Trioxide	P ₂ O ₅	Diphosphorus Pentoxide
CCl ₄	Carbon Tetrachloride	C ₃ H ₈	Tricarbon Octahydride

Molecular Compounds: Formula Writing and Naming

Name the following molecular compounds based on the formula.

1. BF_3 Boron Trifluoride
2. N_2H_4 Dinitrogen Tetrahydride
3. SO_3 Sulfur Trioxide
4. CS_2 Carbon Disulfide
5. CBr_4 Carbon Tetrabromide
6. I_4O_9 Tetraiodide Nonoxide
7. N_2O_3 Dinitrogen Trioxide
8. IBr Iodine Monobromide

Write the correct formula for the following molecular compounds based on the name.

1. chlorine dioxide ClO_2
2. xenon tetrafluoride XeF_4
3. disulfur tetroxide S_2O_4
4. arsenic pentachloride AsCl_5
5. dihydrogen monosulfide H_2S
6. tetraphosphorus hexoxide P_4O_6
7. dichlorine monoxide Cl_2O
8. diiodine heptoxide I_2O_7